	Application No.	Applicant(s)	
Notice of Allowability	10/014,743	LEE ET AL.	
	Examiner	Art Unit	
	Jezia Riley	1637	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to <u>Response received</u> 2. The allowed claim(s) is/are <u>80-86</u> .	S (OR REMAINS) CLOSED 5) or other appropriate comm <b>RIGHTS</b> . This application is 13 and MPEP 1308.	in this application. If not included nunication will be mailed in due cou	urse. <b>THIS</b>
<ul> <li>3.</li></ul>		or (f).	
1. Certified copies of the priority documents have	ve been received		
2. Certified copies of the priority documents have		on No.	
3. Copies of the certified copies of the priority d  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		<del></del>	n from the
5. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C. & 119(e) (to	a provisional application)	
(a) The translation of the foreign language provisional		·	
6. Acknowledgment is made of a claim for domestic priority	• •		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the substitute of the comply of the complete of the comple	f this application. THIS THI	REE-MONTH PERIOD IS NOT EX	KTENDABLE.
<ul> <li>8.  CORRECTED DRAWINGS must be submitted.</li> <li>(a)  including changes required by the Notice of Draftspering</li> <li>1)  hereto or 2)  to Paper No</li> <li>(b)  including changes required by the proposed drawing</li> </ul>	correction filed, whi	ich has been approved by the Exa	
(c) including changes required by the attached Examine Identifying indicia such as the application number (see 37 CFR each sheet.			
9. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR			e the
Attachment(s)			
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO-1449), Paper No.</li> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ Intervie 6☐ Examin	of Informal Patent Application (PTG w Summary (PTO-413), Paper No er's Amendment/Comment er's Statement of Reasons for Allo JEZIA RILEY PRIMARY EXAMINED	owance

Application/Control Number: 10/014,743

Art Unit: 1637

ALLOWED CLAIMS TJ

80. (Previously added): An energy transfer dye comprising:

a xanthene donor dye capable of absorbing light at a first wavelength and emitting excitation energy in response thereto;

a 4,7-dichlororhodamine acceptor dye capable of absorbing the excitation energy emitted by the donor dye and fluorescing at a second wavelength in response thereto; and a non-nucleosidic linker linking the 5- or 6-ring position of the donor dye to the 5- or 6-ring position of the acceptor dye.

Page 2

- 81. (Previously added): The energy transfer dye of Claim 80 in which the donor dye is a fluorescein dye.
- 82. (Previously added): The energy transfer dye of Claim 80 in which the linker has a backbone that is less than 9 atoms in length.
- 83. (Previously added): The energy transfer dye of Claim 80 in which the linker comprises a functional group selected from an alkene, a diene, an alkyne, a five membered ring having at least one unsaturated bond, a six membered ring having at least one unsaturated bond and a fused ring structure.
- 84. (Previously added): The energy transfer dye of Claim 80 which further comprises a linking group suitable for attaching the energy transfer dye to another substance.
- 85. (Previously added): The energy transfer dye of Claim 84 in which the linking group is attached to the 4'-position of the 4,7-dichlororhodamine acceptor dye.
- 86. (Previously added): The energy transfer dye of Claim 80 which comprises the structure:

Art Unit: 1637

Application/Control Number: 10/014,743

Art Unit: 1637

## wherein:

R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are each, independently of one another, selected from hydrogen and alkyl, or alternatively R<sup>1</sup> and R<sup>5</sup>, R<sup>2</sup> and R<sup>6</sup>, R<sup>3</sup> and R<sup>8</sup> and/or R<sup>4</sup> and R<sup>9</sup> may be taken together with the atoms to which they are bonded to form a 5, 6 or 7-membered ring;

R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>9</sup> and R<sup>10</sup> are each, independently of one another, selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkyl, alkene, alkyne, sulfonate, sulfone, amino, ammonium, amido, nitrile, alkoxy, phenyl and substituted phenyl, or alternatively, R<sup>6</sup> and R<sup>7</sup> and/or R<sup>9</sup> and R<sup>10</sup> may be taken together with the atoms to which they are bonded to form a benzo group;

R<sup>8</sup> is selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkene, alkyne, sulfonate, sulfone, amino, ammonium, amido, nitrile, alkoxy, phenyl, substituted phenyl and linking group;

X<sup>1</sup> and X<sup>3</sup> are each, independently of one another, selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkyl, alkene, alkyne, sulfonate, sulfone, amino, ammonium, amido, nitrile and alkoxy;

L is the linker linking the donor and acceptor dyes;

R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, R<sup>15</sup> and R<sup>16</sup> are each, independently of one another, selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkyl, alkene, alkyne, sulfonate,

sulfone, amino, ammonium, amido, nitrile, alkoxy, phenyl and substituted phenyl, or alternatively, R<sup>12</sup> and R<sup>13</sup> and/or R<sup>15</sup> and R<sup>16</sup> may be taken together with the atoms to which they are bonded to form a benzo group;

R<sup>14</sup> is selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkyl, alkene, alkyne, sulfonate, sulfone, amino, ammonium, amido, nitrile, alkoxy, phenyl, substituted phenyl and linking group; and

X<sup>11</sup>, X<sup>12</sup>, X<sup>13</sup> and X<sup>15</sup> are each, independently of one another, selected from hydrogen, fluorine, chlorine, bromine, iodine, carboxyl, alkyl, alkene, alkyne, sulfonate, sulfone, amino, ammonium, amido, nitrile and alkoxy.